

MOLDING PRODUCT OF POLYETHYLENE TEREPHTHALATE

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Abstract

PROBLEM TO BE SOLVED: To obtain a polyethylene terephthalate molding product having a small amount of oligomers such as a cyclic trimer formed in molding, hardly causing a mold stain, and having excellent appearance.

SOLUTION: This polyethylene terephthalate molding product is a polyethylene terephthalate having ≥ 0.50 dl/g intrinsic viscosity and ≤ 0.55 wt.% oligomer (cyclic trimer) content. The increased amount ((y), wt.%) of oligomer after heating and melting the polyethylene terephthalate under nitrogen circulation at 290 deg.C for 7 minutes satisfies the formula $y \leq -0.72x + 0.40$ (Y is the increased amount (wt.%) of the oligomer after the heating and (x) is an oligomer concentration (wt.%) of the molding product). Since the polyethylene terephthalate molding product does not need frequent cleaning of mold in its production, the productivity of the molding product such as bottle, film, sheet, can be improved and the obtained molding product such as bottle, film, sheet is prevented from blanching and has excellent appearance.

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